

Assignment 3

Show all your work

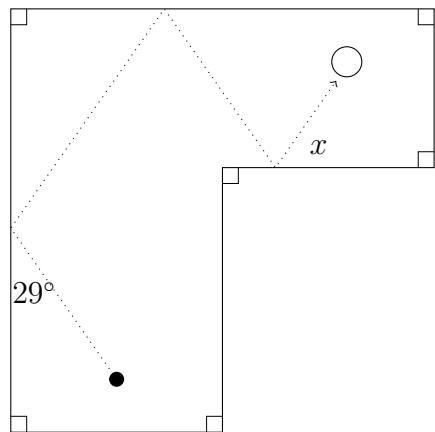
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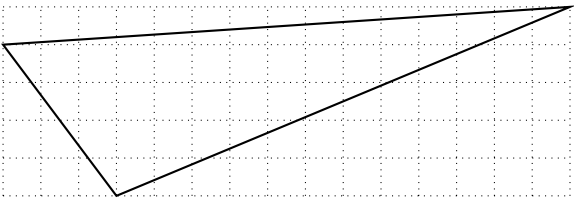
Score: ____/10

- Problem 1:** Find the measure of angle x to make a hole-in-one at the miniature golf course hole. Use the following two facts to find x :
- a. The angle the ball makes as it hits a flat surface has the same measure as the angle the ball makes as it leaves the same surface.
 - b. The interior angle sum of a triangle is 180° .



Score: ____/3

- Problem 2:** Below is a 5×15 grid containing a big triangle. Find the area and perimeter of the big triangle. Show your work.



Score: ____/4

- Problem 3:** Set up a table for convex polygons' angle sums beginning with a triangle, followed by a quadrilateral, a pentagon, and so on. From your table, derive a formula for the measure of the interior angle sum in a regular n -sided polygon.

Score: ____/3